

NORTH ATLANTIC TREATY ORGANISATION



RESEARCH AND TECHNOLOGY ORGANISATION

LECTURE SERIES

Chemical and Biological Defence

SAS-046 / LS-239

organised by the
Studies, Analysis and Simulation Panel

to be held in
Edgewood, MD, UNITED STATES

Wednesday 22 October 2003 - Thursday 23 October 2003

This Lecture Series is open to citizens from NATO Nations
and from Partnership-for-Peace (PfP) Nations

Latest Enrolment Dates

NATO Nations: **Friday 19 September 2003**

PfP Nations: **Friday 29 August 2003**

The Lecture Series is also being held in:

Riga, LATVIA, 06 - 07 October 2003
Istanbul, TURKEY, 09 - 10 October 2003

Citizens from NATO Nations and from Partnership-for-Peace (PfP) Nations may enrol for this Lecture Series via the attached Enrolment Form. It should be noted that PfP Nationals wishing to attend the Lecture Series are required to send their enrolment application to the RTA/OCD Enrolment Co-ordinator (see reverse).

Please note that all presentations and discussions will be held in English, except in Riga where Russian interpretation will be provided.

Background

The mission of RTO is to conduct and promote co-operative research and information exchange. RTO consists of a three level organisation: the Research and Technology Board (RTB), the Panels and the Technical Teams.

The mission of the Studies, Analysis and Simulation (SAS) Panel is:

- To conduct studies and analyses of an operational and technology nature.
- To exchange information on operational analysis (OA) technology and to advance the development of OA methods and tools.
- To provide a forum for NATO modelling and simulation (M&S) oriented towards operational issues.

Theme

The threat of chemical and biological warfare seemed very minor to the Alliance after the fall of the Berlin Wall and the subsequent demise of the Warsaw pact. However, at the moment chemical and biological warfare agents are at the top of the agenda of NATO. As the mission of the Alliance changed with the focus on crisis response operations, the nature of possible opponents changed as well. Some of those opponents may have a chemical or biological weapons capability. In addition, the aftermath of September 11th showed that biological warfare agents may be attractive to terrorists as well, so the SAS panel initiated an update of the Long Term Scientific Study on the defensive aspects of chemical and biological warfare. The previous LTSS had been held in 1988. The goal of the LTSS has been to provide the Alliance with an overview of the scientific and technological developments foreseen for the next 10 to 15 years that may enhance the capabilities of the Alliance to survive and operate in a BC contaminated area.

This Lecture Series will start with an overview on the NATO Research and Technology Organisation (RTO) given by an RTO representative; the study director will present an overview of the LTSS process. Next, all aspects of the passive defense against chemical and biological warfare agents, i.e. hazard avoidance, physical protection, medical countermeasures and decontamination will be presented. In addition, a presentation on countering chemical and biological terrorism will be given as well.

The lectures will be given by experts in the field who directed and participated in the Long Term Scientific Study on the defensive aspect of chemical and biological warfare. There will be ample time for discussions with them.

Thème

Suite à la chute du mur de Berlin et à la dissolution du Pacte de Varsovie qui s'en est suivie, les pays de l'Alliance considéraient la menace de la guerre chimique et biologique comme très faible. Cependant, les agents de guerre chimique et biologique sont un sujet d'étude prioritaire pour l'OTAN aujourd'hui. Avec l'évolution de la mission de l'Alliance vers des opérations de réponse aux crises, la nature de ses adversaires possibles a également changée. Certains de ces adversaires pourraient être en possession d'armes biologiques. En outre, les répercussions de l'attaque du 11 septembre ont démontré que les agents de guerre biologique peuvent intéresser les terroristes également.

Pour ces raisons, la commission SAS a décidé de procéder à la mise à jour de l'étude scientifique à long terme sur les aspects défensifs de la guerre chimique et biologique. La précédente LTSS avait été réalisée en 1988. La nouvelle LTSS devait fournir à l'Alliance un aperçu des développements scientifiques et techniques prévus au cours des 10 à 15 ans à venir qui sont susceptibles d'améliorer la capacité de l'Alliance à survivre et à fonctionner à l'intérieur d'une zone BC contaminée. Ce cycle de conférences débutera par un tour d'horizon de l'Organisation pour la recherche et la technologie de l'OTAN (RTO) présenté par un représentant de l'organisation. Le directeur de l'étude présentera un tour d'horizon du processus de la LTSS. Ensuite, l'ensemble des aspects de la défense passive contre les agents de guerre chimique et biologique c'est à dire l'évitement des risques, la protection physique, les contremesures médicales et la décontamination, seront présentées. En outre, une présentation sera donnée sur le moyen de contrer le terrorisme chimique et biologique.

Les communications seront présentées par des spécialistes du domaine, ayant conduit et participé aux travaux de l'étude scientifique à long terme sur les aspects défensifs de la guerre chimique et biologique. Un large créneau horaire sera prévu au programme pour permettre l'organisation de discussions avec les spécialistes.

Lecture Series Director**Dr Matthijs W. LEEUW, THE NETHERLANDS**

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Lecturers**Dr. Camille Boulet, CANADA**

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Lecture Series Programme**Wednesday 22 October 2003****Day One**

08:30	Registration
09:00	Opening Ceremony
09:10	Introduction-overview M. Leeuw (LSD)
09:30	Effect levels: chemical L. Pitt
10:30	BREAK
11:00	Hazard Avoidance C. Boulet
12:00	LUNCH
13:30	Respiratory Protection/Colpro S. van der Gijp
14:30	Medical countermeasures: prophylaxis J. Cook
15:30	BREAK
16:00	Decontamination A. Grabowski

Thursday 23 October 2003**Day Two**

09:00	Effect levels: biological L. Pitt
10:00	BREAK
10:30	CBRN Terrorism C. Boulet
11:30	Skin Protection S. van der Gijp
12:30	LUNCH
14:00	Medical countermeasures: therapy J. Cook
15:00	Round Table Discussion
17:00	Concluding Remarks M. Leeuw (LSD)

APPLICATION TO ENROL**Lecture Series 239 on "Chemical and Biological Defence" (SAS-046)****RTO Lecture Series - Edgewood, MD, UNITED STATES****Wednesday 22 October 2003 - Thursday 23 October 2003**

Title/Titre (Prof, Dr, Mr, Mrs etc.): -----

Family Name, Initials: -----

Position: -----

I am an employee of Govt/Industry/Academia/Other: -----

Office Address: -----

Tel: ----- Fax: -----

EMail: -----

Nationality: -----

Passport No: -----

Passport Issued at (place) ----- on (date): -----

Date of Birth ----- Place of Birth (inc Country) -----

Latest Enrolment DatesNATO Nations **19-Sep-03** PfP Nations: **29-Aug-03****THIS MUST BE COMPLETED**

The member of RTO named below has endorsed my application to attend this Meeting

My role at the Meeting will be:

 RTA Member Author Co-Author Other Participant**For use of Enrolment Co-ordinator**

I approve this application and have sent an information package

Signed: ----- Date: -----

Please complete this form and send it to the Local Enrolment Co-ordinator * who will, upon receipt of your application to enrol, forward a general information package which will include travel advice, recommended accommodation etc.

* PfP and Non-NATO participants must send this form to the RTA Enrolment Co-ordinator